



COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	LARIO OIL & GAS COMPANY		
Well	SMITH TRUST #1-3		
Field	FELL NORTHWEST		
County	WICHITA	State	KANSAS
Location:	SEC 3 TWP 18S RGE 35W		Other Services DIL/MEL SONIC
Permanent Datum	GROUND LEVEL	Elevation	3190
Log Measured From	KELLY BUSHING 11' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	4/3/18		
Run Number	ONE		
Depth Driller	5060		
Depth Logger	5058		
Bottom Logged Interval	5034		
Top Log Interval	3500		
Casing Driller	8 5/8"@337'		
Casing Logger	337		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.1/62		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@40F		
Rmf @ Meas. Temp	.450@40F		
Rmc @ Meas. Temp	.720@40F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.190@126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:00 A.M.		
Maximum Recorded Temperature	126F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM LAUER		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

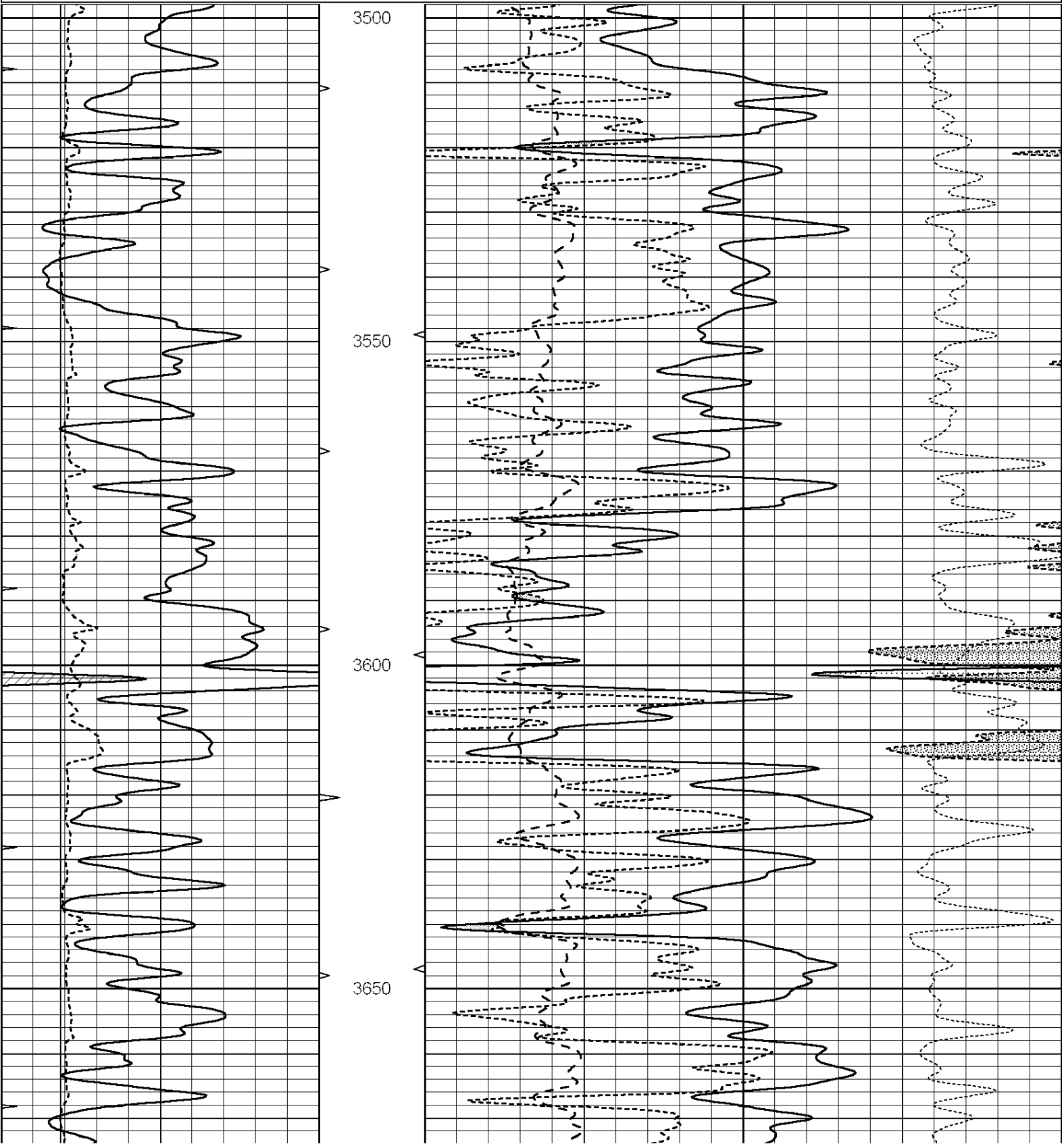
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SCOTT CITY, KS., 15W. ON HWY 96 TO "RD. 22", 2 1/2N., E. INTO
NOTE 22# LCM MATERIAL

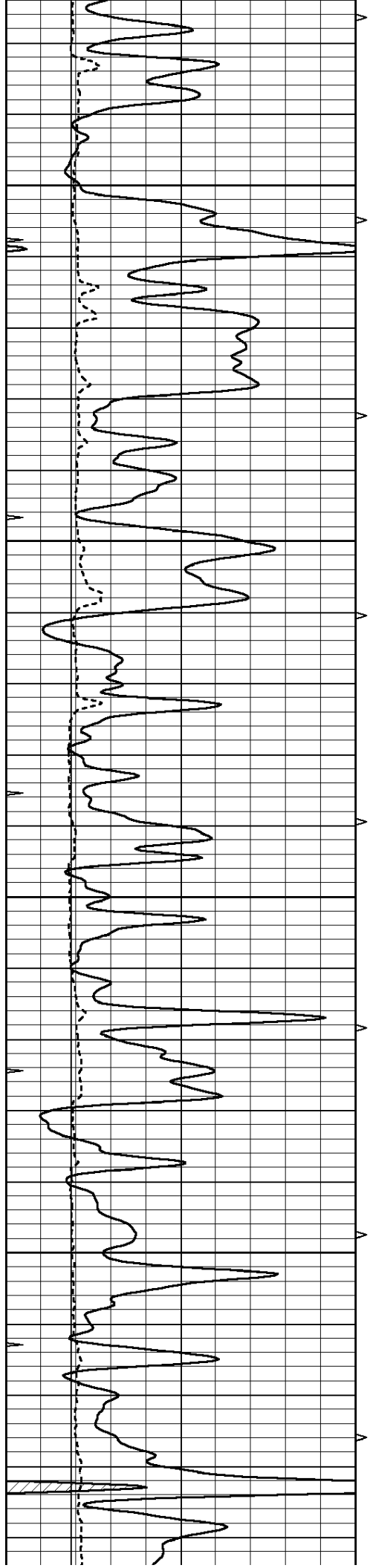


MAIN SECTION

Database File: 2481pe.db
Dataset Pathname: pass3.7
Presentation Format: ldt_neu
Dataset Creation: Tue Apr 03 23:47:09 2018
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		



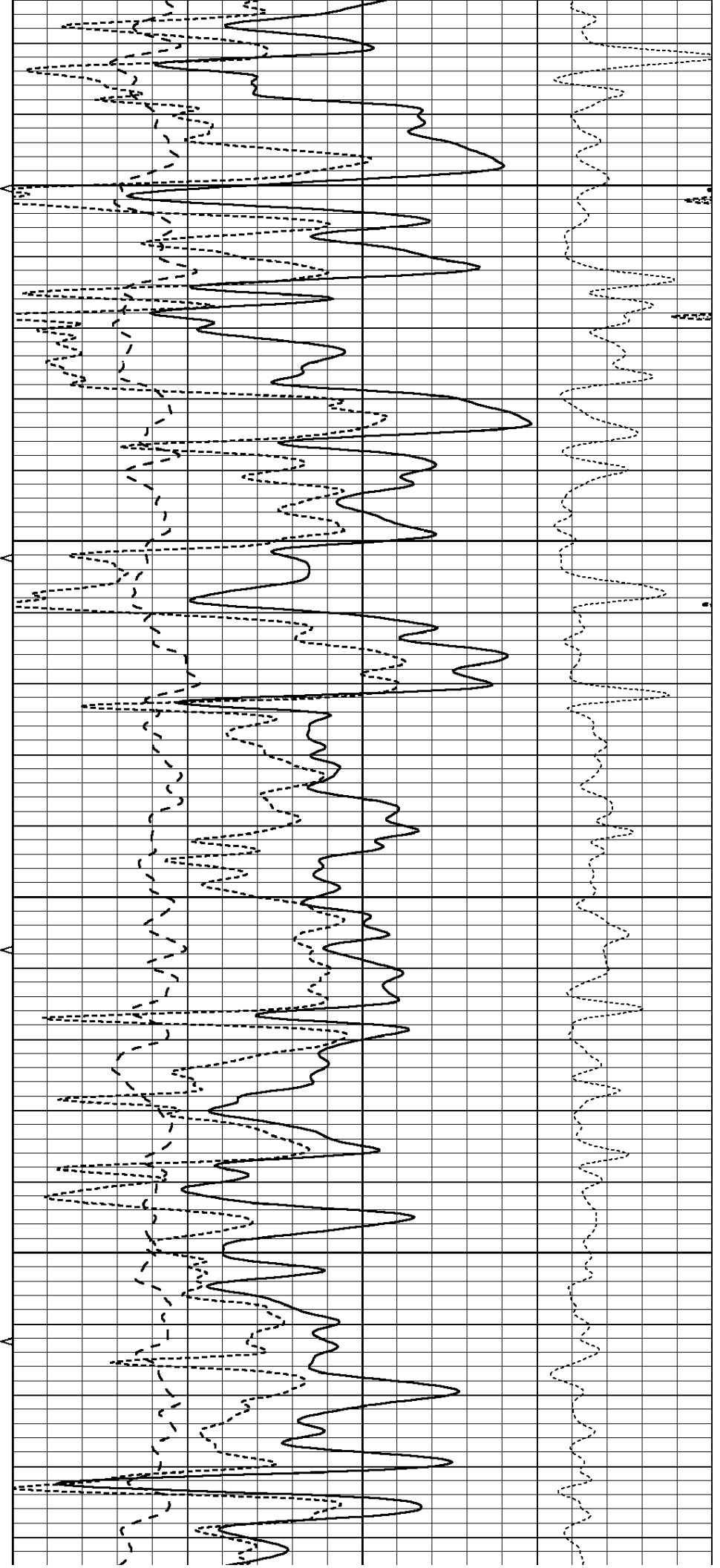


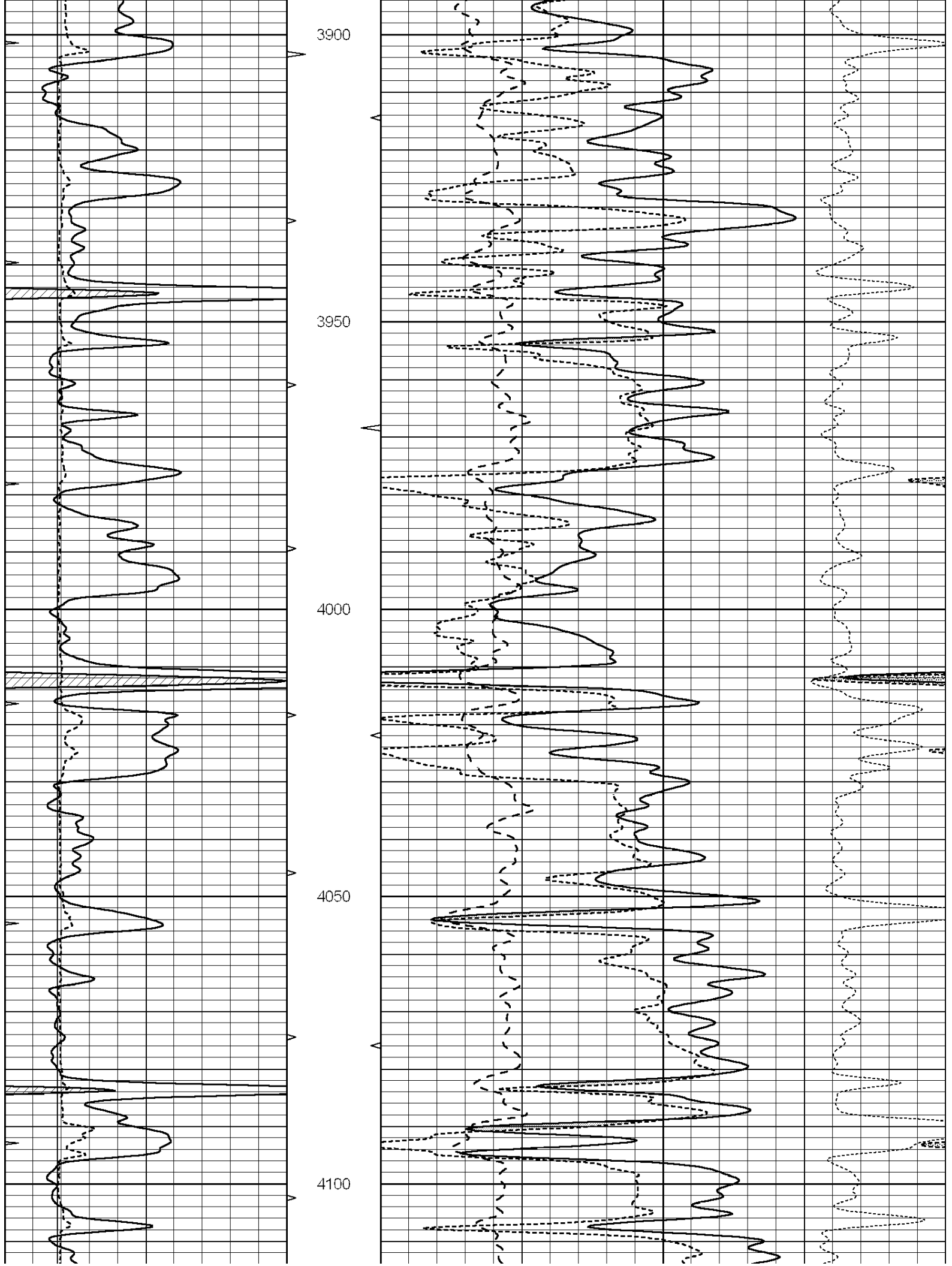
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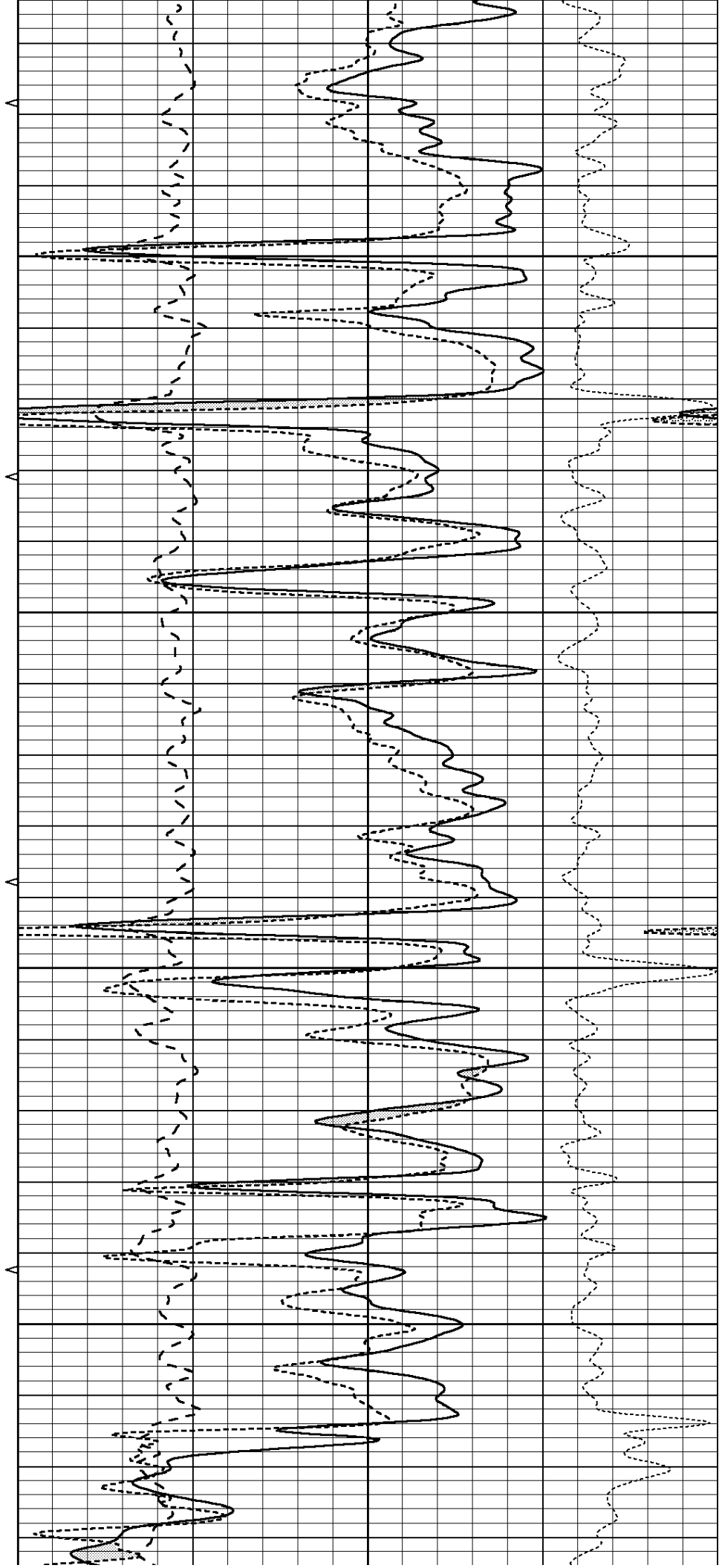
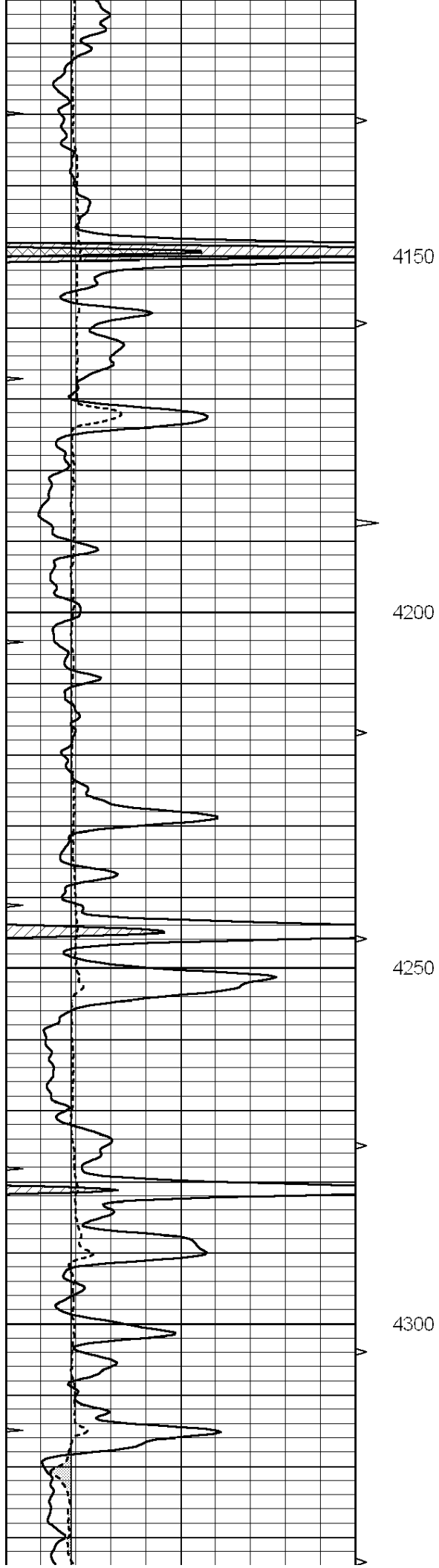
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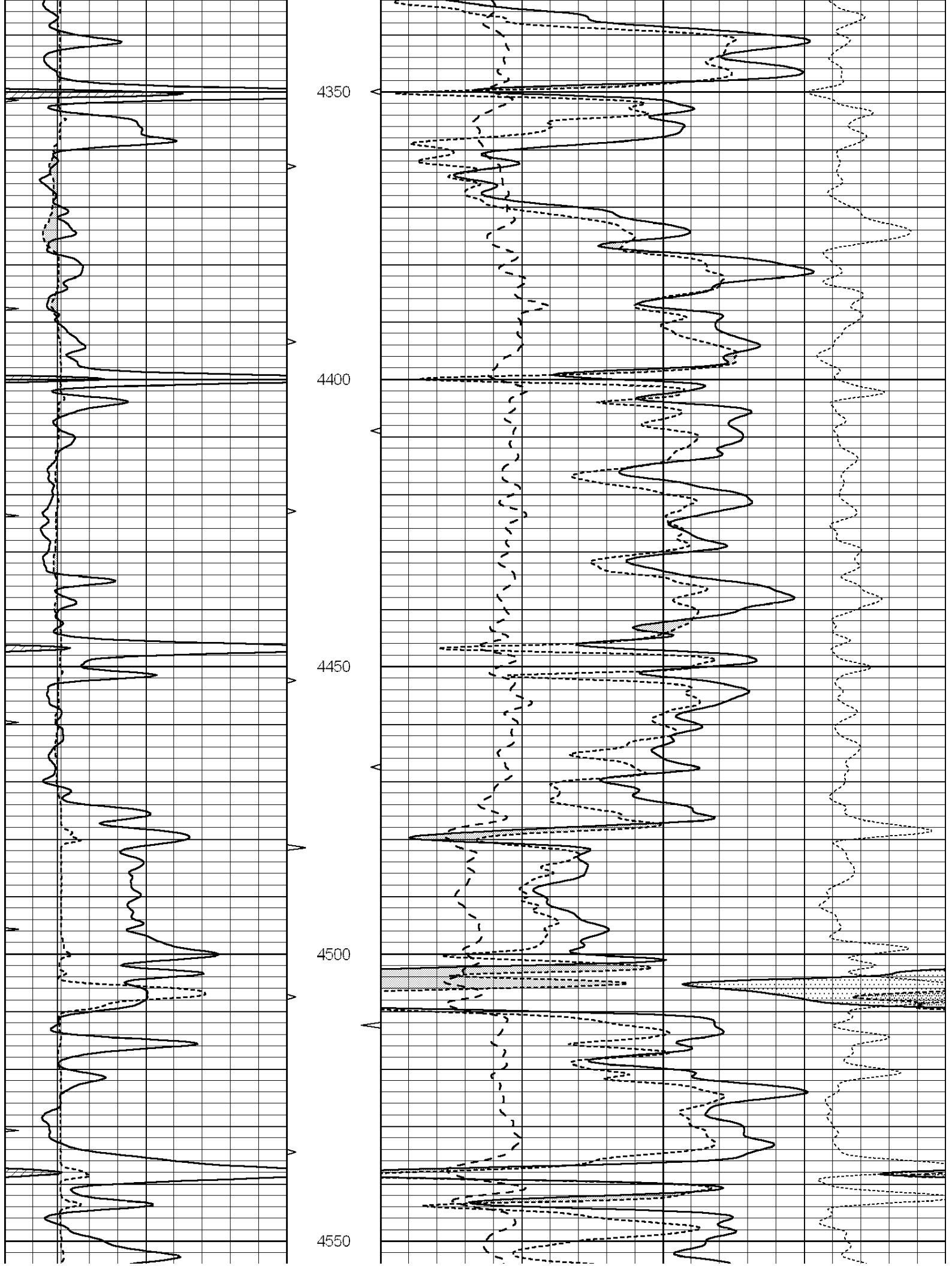
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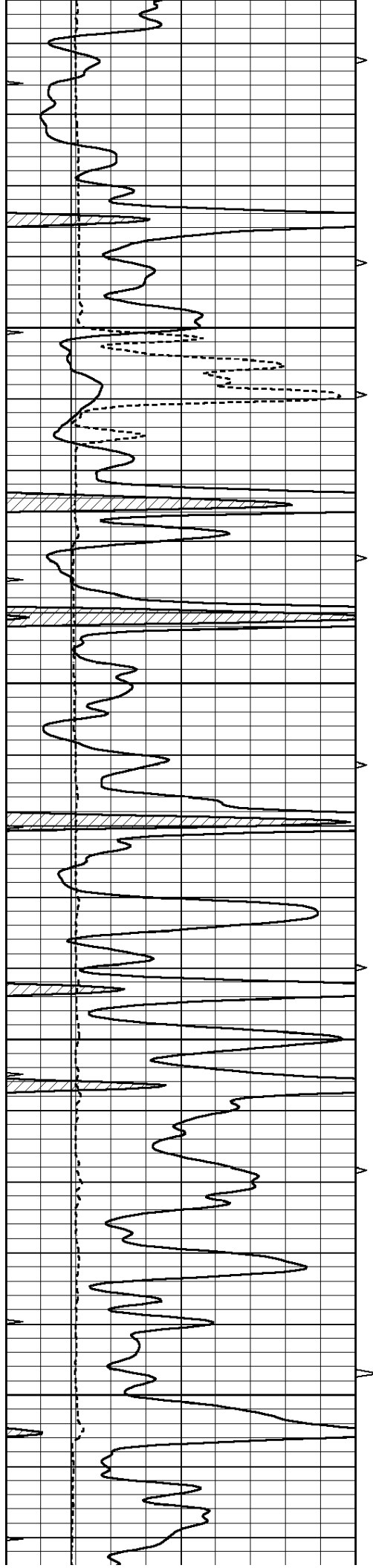
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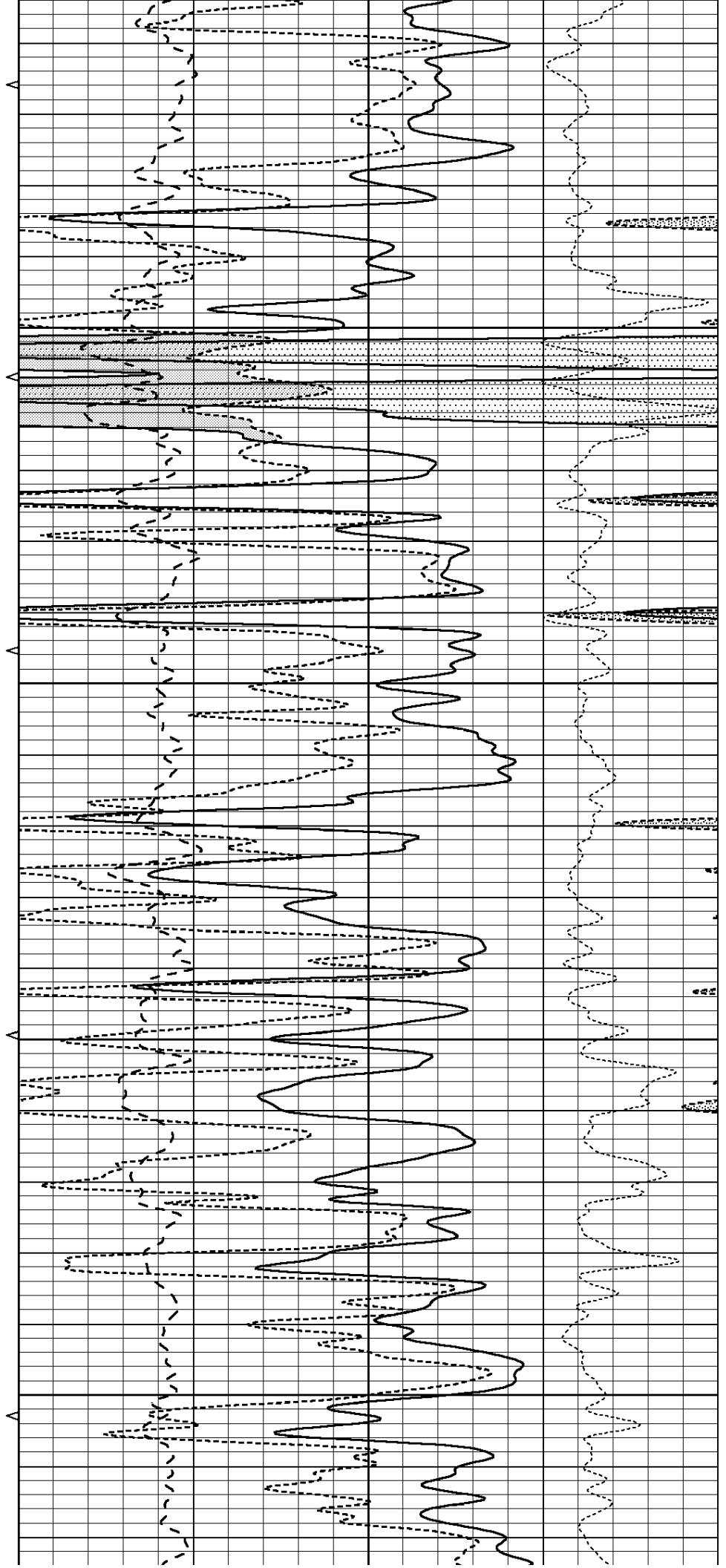


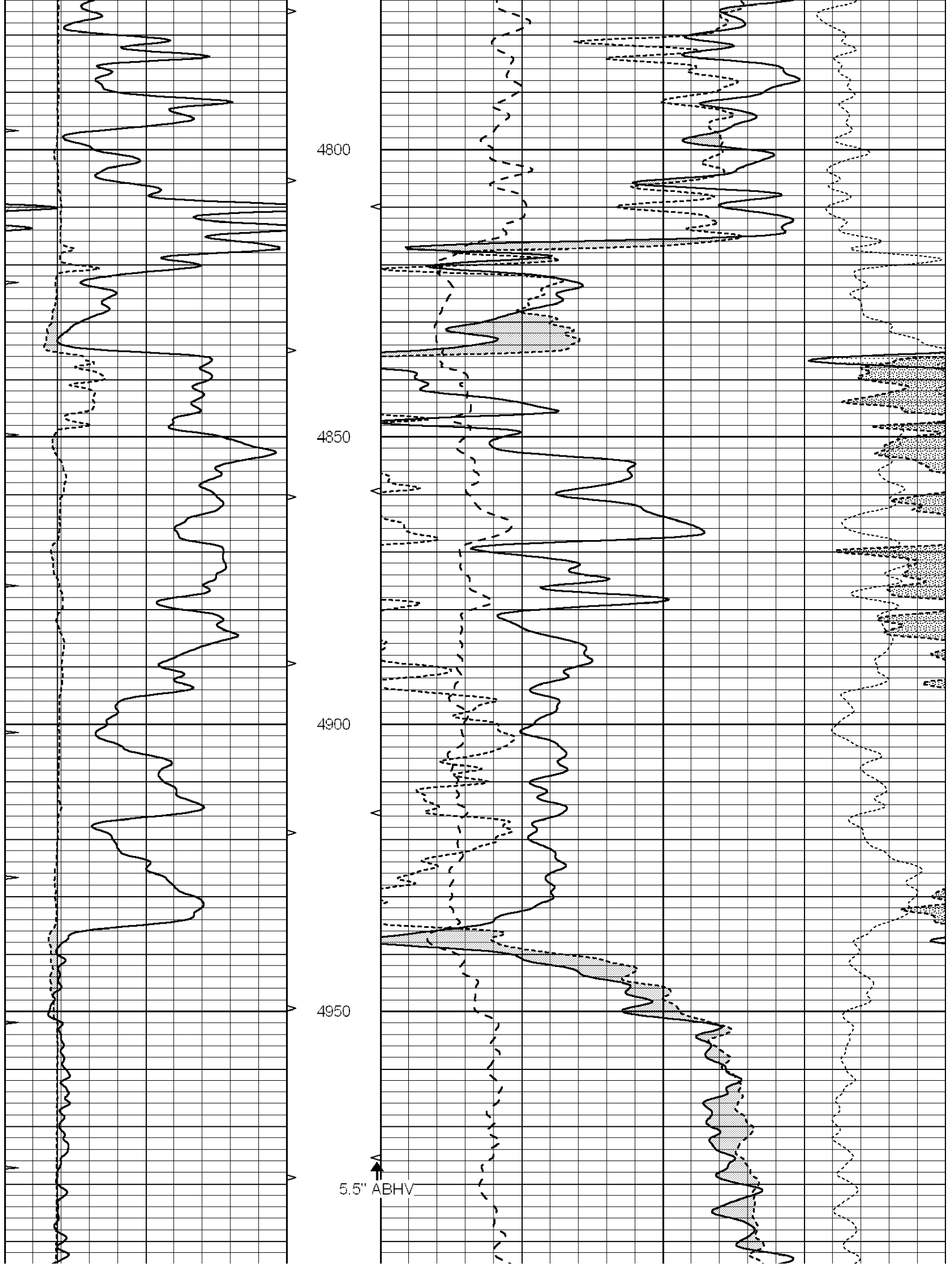
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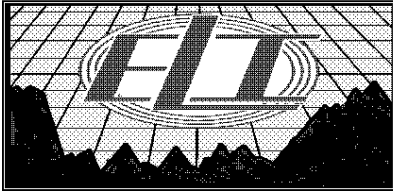
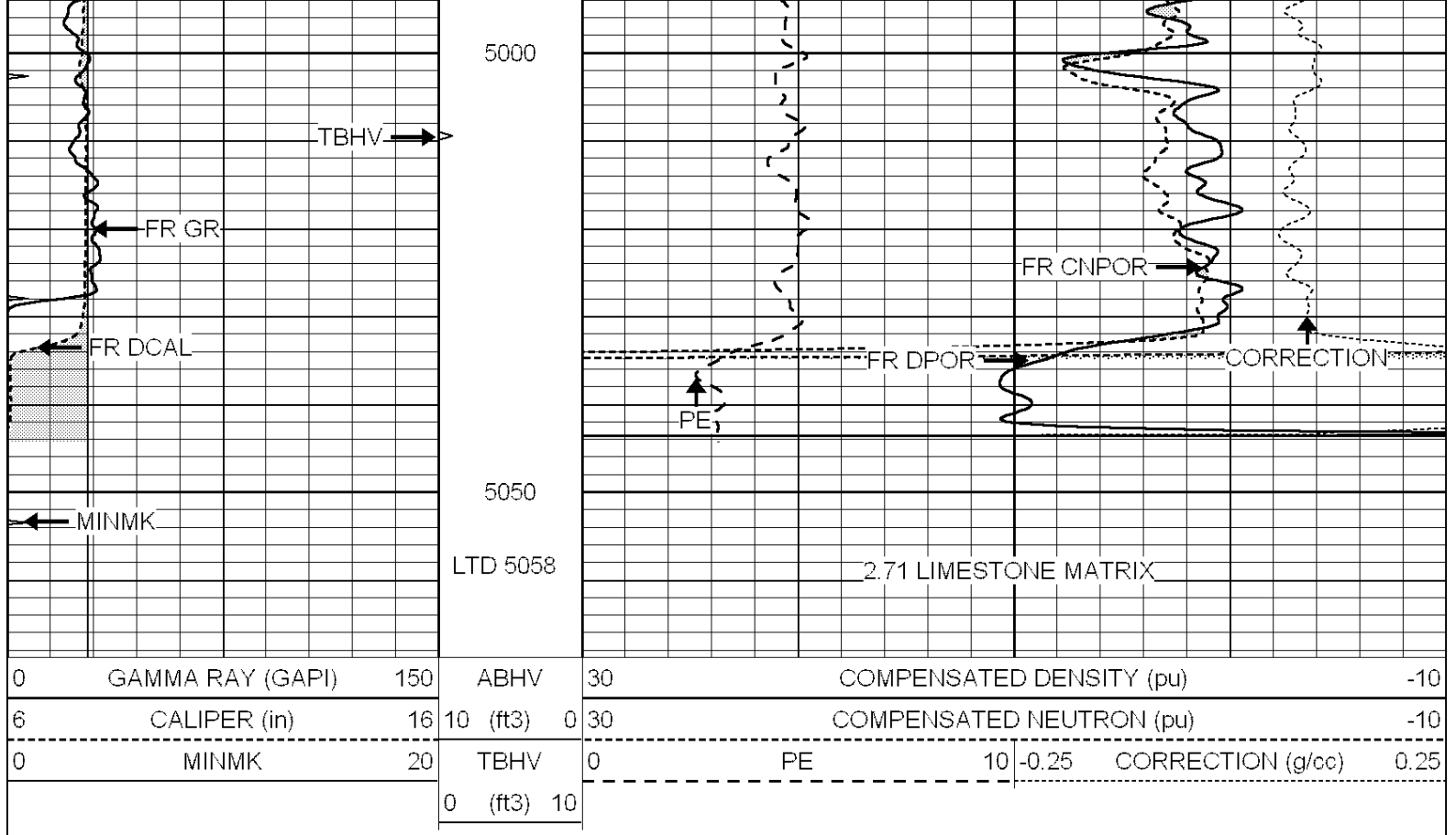
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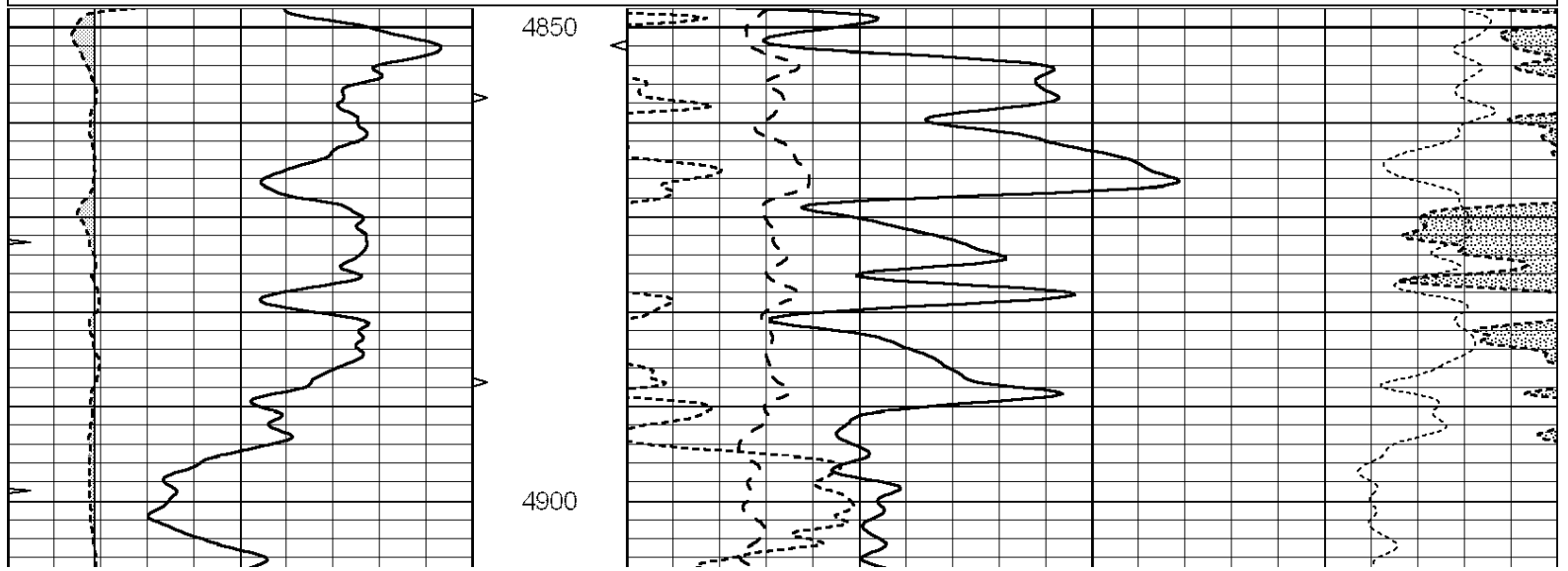
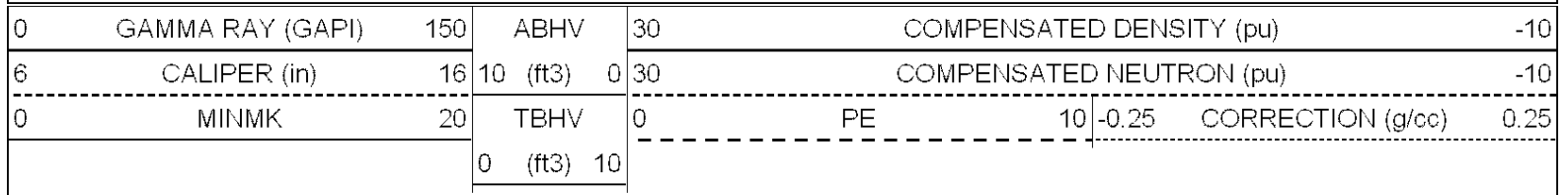


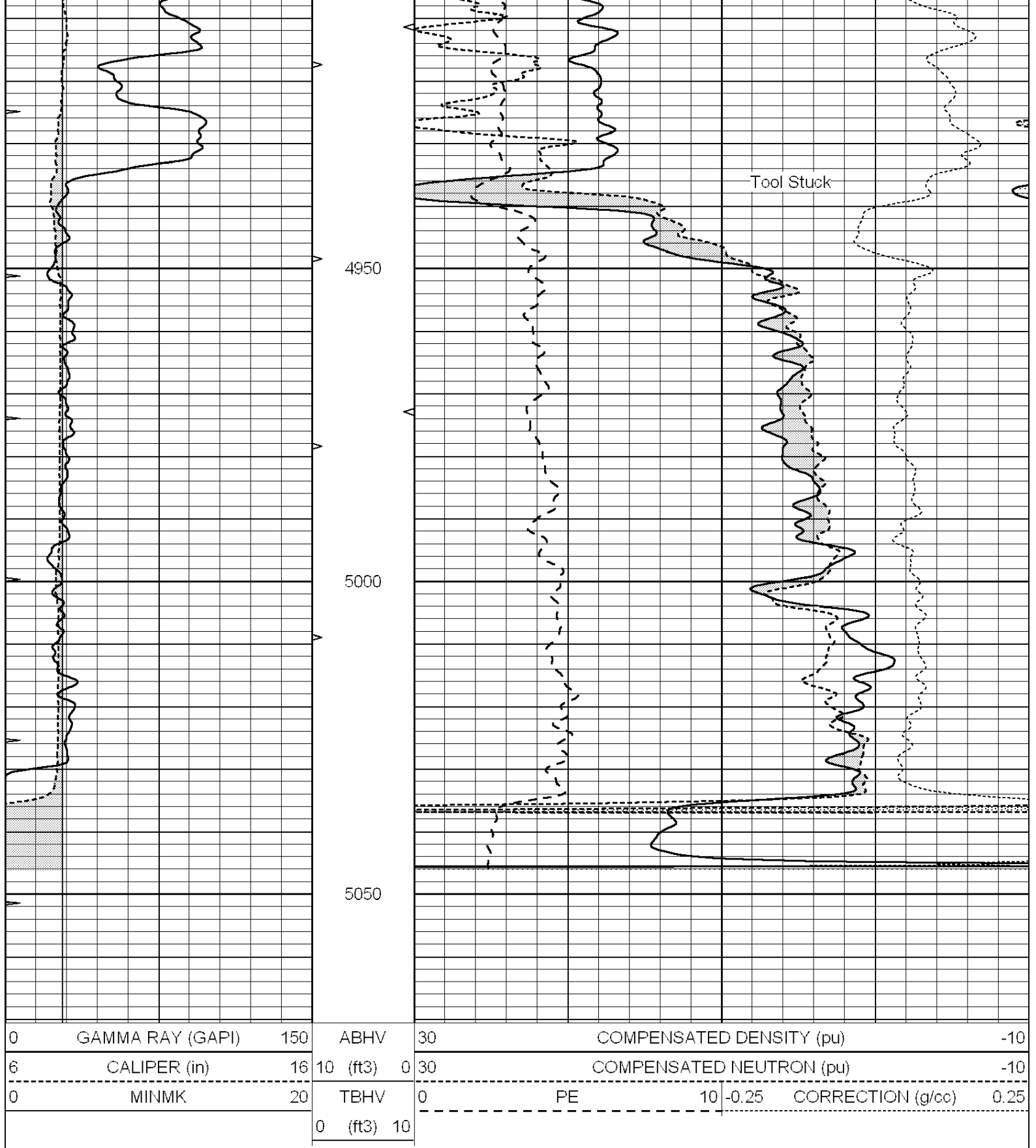




REPEAT SECTION

Database File: 2481pe.db
 Dataset Pathname: pass2.10
 Presentation Format: ldt_neu
 Dataset Creation: Tue Apr 03 22:29:27 2018
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 1598ddn.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 120430

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:

PROBE7-DILG
Wed Aug 30 00:06:33 2017

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
Serial: 002			Model: PRB					

Master Calibration					Performed Mon Aug 21 11:27:42 2017			
	Background	Magnesium	Aluminum	Sandstone				
Window 1	837.1	10632.5	2945.1	12110.1	cps			
Window 2	772.0	9117.4	2570.1	10197.3	cps			
Window 3	631.7	4669.0	1481.9	5042.9	cps			
Window 4	187.0	187.5	185.9	189.9	cps			
Long Space	0.0	8345.4	1798.1	9425.3	cps			
Short Space	1.1	1927.9	1285.9	2050.2	cps			
Rho		1.7100	2.5960	1.3800	g/cc			
Pe		0.0000	2.5700	1.5500				
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558			
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6			

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps			
Window 2	0.0	0.0	0.0	0.0	cps			
Window 3	0.0	0.0	0.0	0.0	cps			
Window 4	0.0	0.0	0.0	0.0	cps			
Long Space	0.0	0.0	0.0	0.0	cps			
Short Space	0.0	0.0	0.0	0.0	cps			
Measured Rho		0.0000	0.0000	0.0000	g/cc			
Measured Correction		0.0000	0.0000	0.0000	g/cc			

Measured Pe		0.0000		0.0000		0	
After Survey Verification		Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0	0.0	cps	
Window 2	0.0	0.0	0.0	0.0	0.0	cps	
Window 3	0.0	0.0	0.0	0.0	0.0	cps	
Window 4	0.0	0.0	0.0	0.0	0.0	cps	
Long Space	0.0	0.0	0.0	0.0	0.0	cps	
Short Space	0.0	0.0	0.0	0.0	0.0	cps	
Measured Rho		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Correction		0.0000	0.0000	0.0000	0.0000	g/cc	
Measured Pe			0.0000		0.0000		

Compensated Neutron Calibration Report				
Serial Number:		070808		
Tool Model:		Probe		
PRE-SURVEY VERIFICATION				
Detector	Readings	Measured	Target	
Short Space	cps			
Long Space	cps	pu	pu	
POST-SURVEY VERIFICATION				
Detector	Readings	Measured	Target	
Short Space	cps			
Long Space	cps	pu	pu	
Gamma Ray Calibration Report				
Serial Number:		070558		
Tool Model:		OPEN_GR		
Performed:		Wed May 31 00:09:32 2017		
Calibrator Value:		1.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		1.0	cps	
Sensitivity:		0.2800	GAPI/cps	